

FOIA request 01849-12

Ralph Ludwig to: Suzanne Jackson

09/26/2012 10:00 AM

This should be all I have.

Ralph

Ralph D. Ludwig, Ph.D.
U.S. EPA
National Risk Management Research Laboratory
Ground Water and Ecosystem Restoration Division
919 Kerr Research Dr.
P.O. Box 1198
Ada, OK 74820

Phone: 580-436-8603 Fax: 580-436-8614

----- Forwarded by Ralph Ludwig/ADA/USEPA/US on 09/26/2012 08:56 AM -----

From: Ralph Ludwig/ADA/USEPA/US
To: Chris Hill <chris.hill@chk.com>
Cc: Carlyle Miller/ADA/USEPA/US@EPA, Robert Puls/ADA/USEPA/US@EPA
Date: 10/19/2011 11:40 AM
Subject: RE: Bradford County Retrospective Case Study

Chris,

One important thing I forgot to mention this morning is that we are also in the process of trying to get a contract in place (through one of our contractors) to do some additional stable isotope analysis as per the attached. We are not sure yet whether we will have the contract in place by next week but, if so, we would be sampling from approximately 10 of the proposed locations. Sorry to complicate things further for you but we had not originally planned on doing this the first round.

Ralph



Isotech analyses.docx

Ralph D. Ludwig, Ph.D.
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Chris Hill

Ralph, Would you mind provide me your contact...

10/18/2011 08:05:26 PM

From: Chris Hill <chris.hill@chk.com>
To: Ralph Ludwig/ADA/USEPA/US@EPA

Cc: Carlyle Miller/ADA/USEPA/US@EPA, Robert Puls/ADA/USEPA/US@EPA
Date: 10/18/2011 08:05 PM
Subject: RE: Bradford County Retrospective Case Study

Ralph,

Would you mind provide me your contact information? In addition, I would appreciate if you could provide a more detailed sampling schedule.

I appreciate your help.

Thanks,
Chris

From: Puls.Robert@epamail.epa.gov [mailto:Puls.Robert@epamail.epa.gov]
Sent: Tuesday, October 18, 2011 8:02 PM
To: Chris Hill
Subject: Re: Bradford County Retrospective Case Study

Ralph Ludwig

From: Chris Hill [chris.hill@chk.com]
Sent: 10/18/2011 09:17 PM GMT
To: Carlyle Miller; Robert Puls
Cc: Ralph Ludwig
Subject: Bradford County Retrospective Case Study

Bob/Carl,

I have a quick question regarding the Bradford County retrospective study. Regarding communication, if Chesapeake elects to take split samples and can obtain the appropriate access agreements, how and who would you like Chesapeake to communicate with in terms of coordinating any split sampling efforts. The list provided only has a date and a general time (AM or PM).

Any additional information you can provide would be greatly appreciated.

Thank you,
Chris Hill
Environmental Engineer
Chesapeake Energy Corporation
Office: (405) 935-2321
Mobile: (405) 388-3907
Fax: (405) 849-2321
E-mail: Chris.Hill@chk.com



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----- Forwarded by Ralph Ludwig/ADA/USEPA/US on 09/26/2012 08:56 AM -----

From: Ralph Ludwig/ADA/USEPA/US
To: Chris Hill <chris.hill@chk.com>
Cc: Carlyle Miller/ADA/USEPA/US@EPA
Date: 10/19/2011 10:09 AM
Subject: RE: Bradford County Retrospective Case Study

Chris,

Our contact info is provided below. Feel free to call anytime.

Cheers,

Ralph

Ralph D. Ludwig, Ph.D.
U.S. EPA
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Ground Water and Ecosystem Restoration Division
Applied Research and Technical Support Branch
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Carlyle R. Miller, Ph.D.
U.S. Environmental Protection Agency
Office of Research and Development
National Risk Management Research Laboratory
Ground Water and Ecosystems Restoration Division
Applied Research and Technical Support Branch
P.O. Box 1198 / 919 Kerr Research Drive
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Mobile: 580 235 1316
Fax: 580 436 8614

Chris Hill

Ralph, Would you mind provide me your contact...

10/18/2011 08:05:26 PM

----- Forwarded by Ralph Ludwig/ADA/USEPA/US on 09/26/2012 08:56 AM -----

From: Ralph Ludwig/ADA/USEPA/US
To: Chris Hill <chris.hill@chk.com>
Date: 10/20/2011 02:38 PM
Subject: RE: DEP split sampling

Great. Thanks.

Ralph

Ralph D. Ludwig, Ph.D.
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Chris Hill

Thanks for the contact info. I will make it 8:30 - 1...

10/20/2011 02:36:11 PM

----- Forwarded by Ralph Ludwig/ADA/USEPA/US on 09/26/2012 08:56 AM -----

From: Ralph Ludwig/ADA/USEPA/US
To: Chris Hill <chris.hill@chk.com>
Date: 10/20/2011 02:33 PM
Subject: RE: DEP split sampling

Sounds good Chris. Hopefully we'll be there by 8 PM. (Our flight is scheduled to arrive in Syracuse at 5:15 PM). Below is Stephen Brokenshire's contact info.

Stephen D. Brokenshire | Mineral Resources Program Specialist |
Division of Resource Management & Well Development |
Office of Oil & Gas Management |
Pennsylvania Department of Environmental Protection |

Scranton District Office |
Samter Building Suite 400 |
101 Penn Avenue |
Scranton, PA 18503 |
Office (570) 346-5535 |
Cell Phone (570) 855-5913 |
sbrokenshi@pa.gov
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Chris Hill

Ralph, Would you mind sending me an email wit...

10/20/2011 02:23:35 PM

----- Forwarded by Ralph Ludwig/ADA/USEPA/US on 09/26/2012 08:56 AM -----

From: Ralph Ludwig/ADA/USEPA/US
To: Chris Hill <chris.hill@chk.com>
Date: 10/21/2011 12:18 PM
Subject: RE: DEP split sampling

Chris,

Hopefully this meets your needs.

Ralph



Sampling Procedure and Sample Collection Order for Bradford County.docx

Ralph D. Ludwig, Ph.D.
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Chris Hill

Thanks for the contact info. I will make it 8:30 - 1...

10/20/2011 02:36:11 PM

----- Forwarded by Ralph Ludwig/ADA/USEPA/US on 09/26/2012 08:56 AM -----

From: Ralph Ludwig/ADA/USEPA/US

To: "Chris Hill (Regulatory)" <chris.hill@chk.com>
Date: 01/30/2012 02:55 PM
Subject: RE: HF status in Bradford County

Chris,

We do not need to talk tomorrow unless that is your preference. If it is more convenient to talk later in the week or early next week, that will be fine with me.

Ralph

Ralph D. Ludwig, Ph.D.
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"Chris Hill (Regulatory)"	Ralph, Does 3 pm work for you? I will be in...	01/30/2012 02:29:58 PM
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----- Forwarded by Ralph Ludwig/ADA/USEPA/US on 09/26/2012 08:56 AM -----

From: Ralph Ludwig/ADA/USEPA/US
To: "Chris Hill (Regulatory)" <chris.hill@chk.com>
Date: 01/30/2012 09:44 AM
Subject: RE: HF status in Bradford County

Chris,

I got your voice mail. Thanks. I have attached a list of the well pads in Bradford County of interest to us. As per my previous e-mail, we would like the most up-to-date information regarding well status at these pad locations (e.g. if and when hydraulically fractured, depths, horizontal lengths and azimuths, etc.)? I will call tomorrow afternoon to discuss if that works for you.

Cheers,

Ralph



well pads of interest list.docx

Ralph D. Ludwig, Ph.D.
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"Chris Hill (Regulatory)" Ralph, I apologize for my delay in respondi... 01/19/2012 12:55:19 PM

----- Forwarded by Ralph Ludwig/ADA/USEPA/US on 09/26/2012 08:56 AM -----

From: Ralph Ludwig/ADA/USEPA/US
To: "Chris Hill (Regulatory)" <chris.hill@chk.com>
Date: 01/30/2012 04:10 PM
Subject: RE: HF status in Bradford County

Chris,

I'll call you at 3 PM CST.

Ralph

Ralph D. Ludwig, Ph.D.
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"Chris Hill (Regulatory)" Ralph, If you have the time, I would actual... 01/30/2012 04:06:31 PM

----- Forwarded by Ralph Ludwig/ADA/USEPA/US on 09/26/2012 08:56 AM -----

From: Ralph Ludwig/ADA/USEPA/US
To: "Chris Hill (Regulatory)" <chris.hill@chk.com>
Date: 02/16/2012 04:57 PM
Subject: Re: CHK Bradford County Map

Chris,

Thanks very much for the map.

Ralph

Ralph D. Ludwig, Ph.D.
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"Chris Hill (Regulatory)" Ralph, I have generated the attached map... 02/15/2012 09:52:22 AM

----- Forwarded by Ralph Ludwig/ADA/USEPA/US on 09/26/2012 08:56 AM -----

From: Ralph Ludwig/ADA/USEPA/US
To: "Chris Hill (Regulatory)" <chris.hill@chk.com>, john.smelko@cabotog.com
Cc: Carlyle Miller/ADA/USEPA/US@EPA, Doug Beak/ADA/USEPA/US@EPA, "radams@chiefog.com" <radams@chiefog.com>
Date: 04/17/2012 04:07 PM
Subject: Re: sampling schedule for Bradford County

Hi Chris/John,

We will be arriving very late Monday evening (probably after 10 PM) and will be starting very early the following morning. I think it will be best if we just meet at the first location you will have access to. Do you know which homeowner locations you will have access to on Tuesday April 24 and therefore where we can first meet?

Regards,

Ralph

Ralph D. Ludwig, Ph.D.
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"Chris Hill (Regulatory)"	Ralph, Chesapeake would be more than h...	04/17/2012 12:53:02 PM
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----- Forwarded by Ralph Ludwig/ADA/USEPA/US on 09/26/2012 08:56 AM -----

From: Ralph Ludwig/ADA/USEPA/US
To: "Chris Hill (Regulatory)" <chris.hill@chk.com>
Cc: Carlyle Miller/ADA/USEPA/US@EPA, Doug Beak/ADA/USEPA/US@EPA, "john.smelko@cabotog.com" <john.smelko@cabotog.com>, "radams@chiefog.com" <radams@chiefog.com>
Date: 04/18/2012 11:40 AM
Subject: RE: sampling schedule for Bradford County

Chris/John,

I just wanted to let you know that we will be adding Ra-226, Ra-228 and gross alpha and gross beta to our list of parameters for this round of sampling.

Thanks,

Ralph

Ralph D. Ludwig, Ph.D.
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"Chris Hill (Regulatory)"

Ralph, I will confirm this Friday the first loc...

04/17/2012 06:26:34 PM

----- Forwarded by Ralph Ludwig/ADA/USEPA/US on 09/26/2012 08:56 AM -----

From: Ralph Ludwig/ADA/USEPA/US
To: "Chris Hill (Regulatory)" <chris.hill@chk.com>
Date: 04/16/2012 05:41 PM
Subject: Homes likely not to be sampled again in Bradford Co

Hi Chris,

Right now I can only provide you with four homes that will very likely not be sampled again as part of our study. They are the confidential location, . Some others may also not be sampled in the future but we are less sure about them at this time .

Regards,

Ralph

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